Rec'o Translation Rec'd PCT/PTO 2 7 APR 2005



PATENT COOPERATION TREAT



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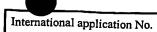
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Pula 70)

	(1 C1 Atticle 30 att	d Kule 70).	• • • • • • • • • • • • • • • • • • • •			
Applicant's or agent's file reference B02/0673PC	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day)		Priority date (day/month/year)			
PC1/EP2003/011852 24 October 2003 (24.10.2003) 28 October 2003 (24.10.2003)			28 October 2002 (28.10.2002)			
International Patent Classification (IPC) or no C08G 65/00	ational classification and IPC					
Applicant	BASF AKTIENGESELI	LSCHAFT				
This international preliminary examinant is transmitted as the second seco	nation report has been prepared	by this Interna	ational Preliminary Examining Authority			
T. P. C.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This report contains indications relating to the following items:						
I Basis of the report						
II Priority	II Priority					
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The state of the s						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
27 May 2004 (27.05.2004)		28 Jan	uary 2005 (28.01.2005)			
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.	Telephon	Telephone No.				
DCM/mm + tto-						

Form PCT/IPEA/409 (cover sheet) (July 1998)





PCT/EP2003/011852

I. Basis of the	e report
1. With rega	rd to the elements of the international application:*
the the	international application as originally filed
1 ~	description:
pag	
pag	as originally filed
pag	filed with the demand
	, filed with the letter of
	plaims:
pag	as originally filed
pag	, as amended (together with any statement under Article 10
page	
	, filed with the letter of11 November 2004 (11.11.2004)
the c	rawings:
page	as originally filed
page	filed with the demand
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the sec	uence listing part of the description:
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page	, as originally filed
page	, filed with the letter of, filed with the demand
the late or 55 3. With regar preliminary conta filed furnis furnis The sintern	to the language, all the elements marked above were available or furnished to this Authority in the language in which and application was filed, unless otherwise indicated under this item. which is: unguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). unguage of publication of the international application (under Rule 48.3(b)). unguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3). It to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing: under the international application in written form. under the international application in computer readable form. the subsequently to this Authority in written form. the subsequently to this Authority in computer readable form. tatement that the subsequently furnished written sequence listing does not go beyond the disclosure in the attenual application as filed has been furnished.
	ratement that the information recorded in computer readable form is identical to the written sequence listing has mendments have resulted in the cancellation of: the description, pages
님	the claims, Nos
	the drawings, sheets/fig
	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
ana 70.17).	theets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
Any replacem	ant sheet containing such amendments must be referred to under item 1 and annexed to this report.
orm PCT/IPEA	409 (Box I) (July 1998)

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement					
Novelty (N)	Claims	7~9	YES		
	Claims	1-6	NO		
Inventive step (IS)	Claims	7-9	YES		
	Claims	1-6	NO		
Industrial applicability (IA)	Claims	1-9	YES		
	Claims		NO		
Citations and and					

Citations and explanations

- .D1: SCHUBERT ET AL.: "Approach towards high molecular mass polymers via metal complexing oligomers", POLYMER REPRINTS, Vol. 42, No. 2, 2001, pages 395-396, XP009025723, mentioned in the application
- D2: SCHUBERT ET AL.: "Functional (Block) Copolymers with metal complexing segments", POLYMER REPRINTS, Vol. 41, No. 1, 2000, pages 542-543, XP009025724, mentioned in the application
- D3: SCHUBERT ET AL.: "Functionalized polymers with metal complexing segments: a simple and high-yield entry towards 2,2:6,2-terpyridine-based oligomers",

 MACROMOL. RAPID COMMUN., Vol. 21, No. 16, 2000, pages 1156-1161, XP002269861
- D4: SCHUBERT ET AL.: "Makromoleküle mit Bipyridin- und Terpyridinkomplexen als Verknüpfungsstellen: erste Schritte auf dem Weg zu metallo-supramolekularen Polymeren", ANGEW. CHEM., Vol. 114, 16 August 2002 (2002-08-16)
- D5: WO94 28060 A (HENKEL CORP) 8 December 1994 (1994-12-
- D6: SHAY G.D.: "ALKALI-SWELLABLE AND ALKALI-SOLUBLE THICKENER TECHNOLOGY A REVIEW", ADVANCES IN CHEMISTRY SERIES, AMERICAN CHEMICAL SOCIETY,

WASHINGTON, D.C., US, Vol. 223, 1989, pages 457-494, XP008001247 ISSN: 0065-2393.

Amendments

The amended claims 1-9 are allowable.

Novelty

Claims 1-6 are not novel. Claims 7-9 are novel.

D1 to D4 describe polymers and methods of preparing them that possess all the features of claims 1-6. They describe how high-molecular polymers are produced from bisfunctionalized oligomers with a molecular weight of 8000 g/mol by the addition of transition metal ions. The term "polymers" by definition implies that the degree of polymerization n is at least 10 (and not between 2 and 10 as with oligomers), which means a molecular weight greater than 30 000. Concretely, the preparation of polymers 4, 5, 6, 11 and 12 is described and the polymerization pursued by means of viscosity measurements, etc. Until proven otherwise, it is assumed that the polymers concretely described have a molecular weight greater than 30 000 g/mol. See D1, fig. 2-7; experimental: preparation of polymers 4 and 5; D2, fig. 2-6, experimental: preparation of polymer 6; D3, pages 1158-1160, experimental: preparation of polymers 11 and 12; D4, pages 3046-3047, fig. 69 and 71. Thus, claims 1-6 are not novel.

Inventive step

Claims 7-9 involve an inventive step.

A person skilled in the art finds nothing in the prior art that would suggest that the present polymers be used as thickeners or loose gelatinizing agents. Claims 7-9 thus involve an inventive step.

Industrial applicability

The subject matter of the claims has industrial applicability.